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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/831,566	05/10/2001	Manfred T. Reetz	STUDIEN 282-	6932	
7590 05/17/2004			EXAM	EXAMINER	
Norris McLaughlin & Marcus 220 East 42nd Street 30th Floor			METZMAIER, DANIEL S		
New York, NY 10017			ART UNIT	PAPER NUMBER	
now roll, ivi	10017		1712		
			DATE MAILED: 05/17/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		170			
1	Application No.	Applicant(s)			
	09/831,566	REETZ ET AL.			
Office Action Summary	Examiner	Art Unit			
	Daniel S. Metzmaier	1712			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply if NO period for reply is specified above, the maximum statutory period vorce and the second period for reply within the set or extended period for reply will, by statute any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ti y within the statutory minimum of thirty (30) da vill apply and will expire SIX (6) MONTHS fron , cause the application to become ABANDON	mely filed ys will be considered timely. n the mailing date of this communication. ED (35 U.S.C.§ 133).			
Status					
2a) ☐ This action is FINAL . 2b) ☑ This 3) ☐ Since this application is in condition for alloward					
Disposition of Claims					
4) Claim(s) 21-45 is/are pending in the applicatio 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 21-45 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	wn from consideration.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomposite and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 10.	cepted or b) objected to by the drawing(s) be held in abeyance. So tion is required if the drawing(s) is c	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat * See the attached detailed Office action for a list	ts have been received. ts have been received in Applica prity documents have been recei nu (PCT Rule 17.2(a)).	ation No ved in this National Stage			
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	4) Interview Summa Paper No(s)/Mail 5) Notice of Informa 6) Other:				

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DETAILED ACTION

Claims 21-45 are pending.

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 28 January 2004 has been entered.

Specification

2. The disclosure is objected to because of the following informalities: page 5, line 2; the range "0,5-5 nm" should read "0.5-5 nm".

At page 6, lines 19 and 21; "betains" should be spelled "betaines".

At page 7, lines 9 and 13; "0,5" should be "0.5".

At page 8, line 18; "0,1" should be "0.1".

At page 9, line 13; "0,4" should be "0.4".

At page 10, line 2; "0,1" should be "0.1".

At page 10, line 24; "4,85" should be "4.85".

At page 11, line 7; "11,5" should be "11.5".

At page 11, line 28; "0,1" should be "0.1".

At page 12, line 1; "1,6" should be "1.6".

At page 12, line 19; "2,97" should be "2.97".

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At page 12, line 20; "2,59" should be "2.59".

At page 12, line 24; "0,1" should be "0.1".

At page 13, line 20; "0,1" should be "0.1".

At page 15, line 8; "11,5" should be "11.5".

At page 16, last line; "0,1" should be "0.1".

At page 16, line 11; "0,5" should be "0.5".

At page 16, line 14; "0,6" should be "0.6".

At page 16, line 23; "0,1" should be "0.1".

At page 17, line 5; "0,5" should be "0.5".

At page 17, line 8; "0,6" should be "0.6".

At page 17, line 17; "0,1" should be "0.1".

At page 17, line 28; "0,5" should be "0.5".

At page 18, line 10; "0,1" should be "0.1".

At page 19, line 14; "1,7±0,4" should be "1.7±0.4".

At page 20, line 14; "0,1" should be "0.1".

At page 21, line 26; "0,1" should be "0.1".

At page 22, line 1; "0,1" should be "0.1".

Appropriate correction is required.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

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4. Claims 21-45 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter, which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Applicants last amendment, After Final Amendment dated 28 July 2003, requires 100% water-soluble metal oxide colloid. Said colloid having particle sizes ranging from 0.5 – 5 nm, wherein the said metals are of a groups VIb, VIIb, VIII, Ib or IIb of the Periodic Table. Said new limitation is deemed new matter for the following reasons.

- (1) It is unclear where applicants provide basis for the new limitation requiring 100% water-soluble metal oxide. Applicants (page 3, lines 7-9) disclose water-soluble metal-oxide colloids and bimetal-oxide colloids. The instant limitation of "100% water-soluble metal oxide colloid" has not been found in the originally filed disclosure.
- (2) Applicants claims set forth metal-oxides that are 100% water soluble and also claim colloids having a particle size of 0.5 5 nm. Said limitations are inconsistent since "completely redispersible in water" is not the same as 100% water-soluble. Furthermore, a 100% water-soluble metal oxide would yield a true solution in water. The metal oxide cannot both be 100% water-soluble and a colloidal particle at the same time. Attention is directed to the Advisory Action mailed 05 August 2003.
- (3) It is unclear how metal-oxides of at least groups VIb, VIIb, VIII or IIb are 100% water soluble since said oxides are art known to have limited water solubility. The

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examples disclose colloidal metal oxides that are redispersible in water but are not disclosed as 100% water-soluble.

- 5. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 6. Claims 24, 25, 30 and 31 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In claims 24, 25, 30 and 31, the phase "the main group of the Periodic Table" lacks antecedent basis.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel S. Metzmaier whose telephone number is (703) 308-0451. The examiner can normally be reached on 9:00 AM to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vasu Jagannathan can be reached on (571) 272-1119. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Daniel S. Metzmaier Primary Examiner Art Unit 1712

DSM